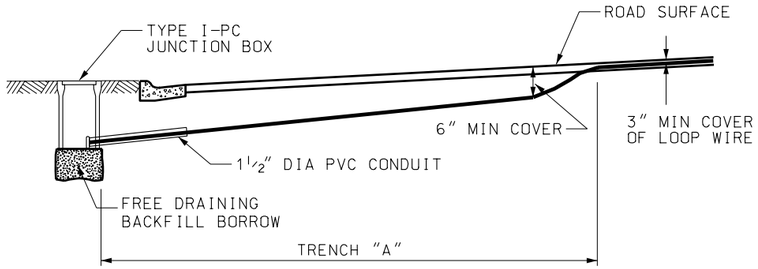
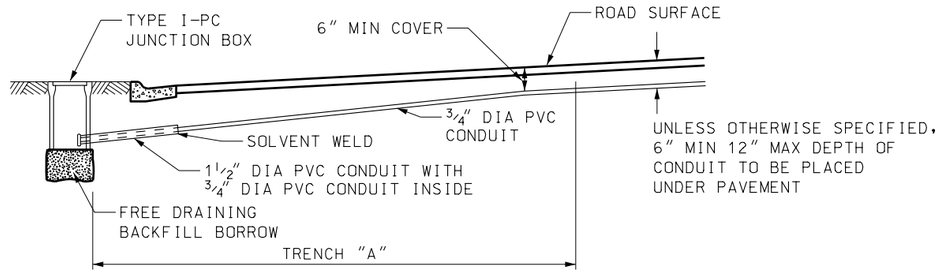
SAW CUT DETAIL
(CONCRETE ONLY)

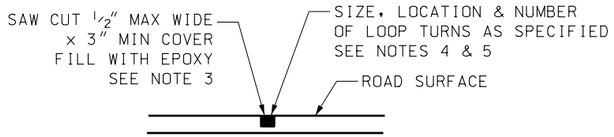


SECTION B-B

P.V.C. TRENCHED LOOP DETAIL
(ASPHALT OR UNDER NEW CONCRETE)



SECTION D-D

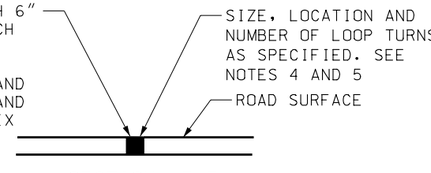


SECTION C-C

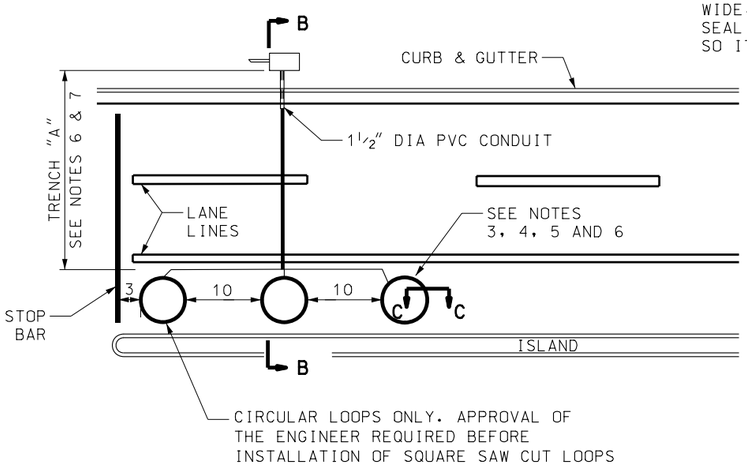
MAXIMUM TRENCH WIDTH 6" FOR BOTH CROSS TRENCH AND LOOP TRENCH

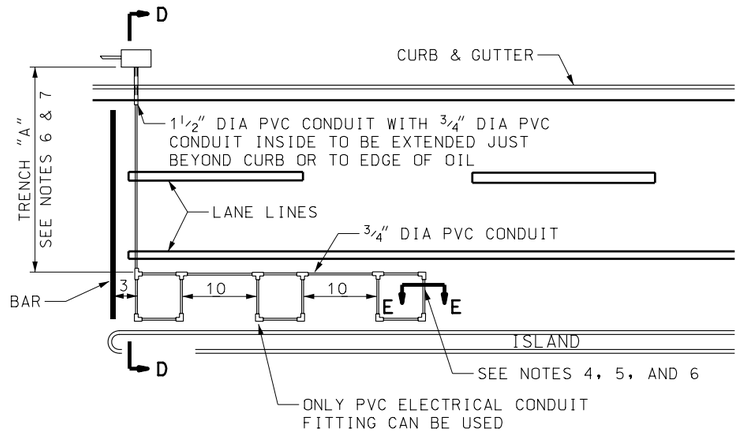
FOR TRENCH 1" WIDE AND GREATER, TACK COAT AND BACKFILL WITH HOT MIX ASPHALT (1/2" MAX AGGREGATE MIX) - COMPACT WITH FLAT NOSE ON JACK HAMMER WITH 3" MAX LIFTS

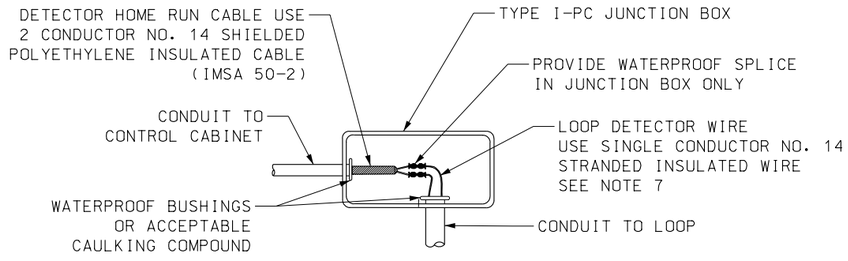
FOR TRENCH LESS THAN 1" WIDE, FILL WITH CRACK SEAL - SECURE CONDUIT SO IT DOES NOT FLOAT



SECTION E-E







LEAD-IN/HOME RUN SPLICE DETAIL

NOTES:

1. BACKFILL TRENCH WITHIN 8 HOURS OF TRENCHING WITH SPECIFIED MATERIALS.
2. USE SCHEDULE 40 PVC CONDUIT. INSTALL ALL CONDUITS IN SAME TRENCH WHERE POSSIBLE. USE INDIVIDUAL AND SEPARATE PVC CONDUIT FOR EACH LOOP AND LEAD-IN TO THE JUNCTION BOX.
3. INSTALL ALL CONDUCTORS IN SAW CUT. PLACE CABLE OR WIRE AT BOTTOM OF DRY SLOT. USE EPOXY SEAL WHICH DOES NOT CONTAIN ACETONE SOLVENT TO CLOSE SAW CUT.
4. USE 4 TURNS OF SINGLE CONDUCTOR #14 AWG CABLE ON ALL LOOPS 6' X 12' AND SMALLER. DO NOT TWIST WIRES IN LOOP.
5. SEE PLAN SHEETS FOR DETECTOR LOOP LOCATION. IF A DETECTOR LOOP LOCATION IS IN CONFLICT WITH A MANHOLE, WATER VALVE, OR PAVEMENT EXPANSION JOINT, ADJUST THE LOOP PLACEMENT FORWARD OR BACKWARD IN THE SHORTEST DIRECTION FROM THE OPTIMUM POSITION.
6. DO NOT SPLICE THE TRAFFIC SIGNAL FIELD WIRE EXCEPT THE JUNCTION BOX LOOP WIRE CONNECTIONS. TAG AND NUMBER EACH LOOP WIRE IN CONFORMANCE WITH THE DESIGN. PLACE LOOP DETECTOR WIRE COUNTER CLOCKWISE.
7. TWIST WIRES BETWEEN LOOP AND JUNCTION BOX (TRENCH "A"). USE AT LEAST ONE TWIST PER FOOT IN SAW CUTS AND AT LEAST THREE TWISTS PER FOOT IN CONDUIT. FOR SAW-CUT LOOP INSTALLATIONS, USE SINGLE CONDUCTOR NO. 14 STRANDED TYPE XLPE OR XHHW WIRE (IMSA 51-7). FOR PVC CONDUIT INSTALLATIONS, USE SINGLE CONDUCTOR NO. 14, STRANDED TYPE XHHW WIRE (IMSA 51-3).
8. INSPECT AND TEST ALL LOOPS.
9. DO NOT HOOK UP MORE THAN 4 LOOPS TO THE SAME HOMERUN CABLE OR AMPLIFIER CHANNEL.
10. PREFORMED LOOPS MAY BE USED WITH APPROVAL OF THE ENGINEER.

NO.	DATE	APPR.	REVISIONS
1	02/23/06	L.M.	ENTIRE DRAWING REVISED.

REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — DEPUTY DIRECTOR — FEB.23,2006 DATE
CHAIRMAN STANDARDS COMMITTEE APPROVED — FEB.23,2006 DATE

TRAFFIC SIGNAL
LOOP DETECTOR
DETAILS

STANDARD DRAWING TITLE

STD DWG
SL 11